



Analytical Laboratory

13339 Hagers Ferry Road Huntersville, NC 28078-7929 McGuire Nuclear Complex - MG03A2 Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number:	J13030033			
Project Name:	NPDES - QUARTERLY			
Customer Name(s):	Craig Mercer, Mark J Harper, To	odd Spade, Tara Thomas, Matthev	v Hoyt, Michael	
Customer Address:	11021 BROWER RD.			
	NORTH BEND, OH 45052			
Lab Contact:	Mary Ann Ogle	Phone: 980-875-5274		
Report Authorized By: (Signature)		Date:	3/15/2013	
(-3,	Mary Ann Ogle			

Program Comments:

The Manganese result is higher than historical values.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications: North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

		Collection					
Sample ID	Plant/Station	Date and Time	Collected By	Sample Description			
2013004972	MIAMI-FORT	05-Mar-13 10:15 AM	ILLEGIBLE	OUTFALL 002			
2013004973	MIAMI-FORT	05-Mar-13 9:12 AM	ILLEGIBLE	OUTFALL 608			
2 Total Samples							

Technical Validation Review

Checklist:

	COC and .pdf report are in agreement with sample and analyses (compliance programs and procedure	✓ Yes	☐ No	
	All Results are less than the laboratory reporting lim	Yes	⊘ No	
	All laboratory QA/QC requirements are acceptable.		✓ Yes	☐ No
Report S	ections Included:			
✓ Jo	b Summary Report	☐ Sub-contr	acted Laborate	ory Results
✓ Sa	ample Identification	☐ Customer	Specific Data	Sheets, Reports, & Documentation
✓ Te	echnical Validation of Data Package	☐ Customer	Database Ent	ries
✓ Ar	nalytical Laboratory Certificate of Analysis	✓ Chain of 0	Custody	
☐ Ar	nalytical Laboratory QC Report	Electronic	: Data Delivera	able (EDD) Sent Separately

Reviewed By: Mary Ann Ogle Date: 3/15/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030033

Site: OUTFALL 002 Sample #: 2013004972

Collection Date: 05-Mar-13 10:15 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
AMMONIA (COLORIMETRIC)								
Ammonia (Colorimetric)	0.385	mg-N/L		0.02	1	EPA 350.1	03/12/2013 11:55	BGN9034
TOTAL KJELDAHL NITROGEN (COLORIMETRIC)								
Total Kjeldahl Nitrogen (Colorimetric)	0.80	mg-N/L		0.15	1	EPA 351.2	03/07/2013 12:14	BGN9034
TOTAL DISSOLVED SOLIDS								
TDS	760	mg/L		50	1	SM2540C	03/07/2013 15:30	SWILLI3

Site: OUTFALL 608 Sample #: 2013004973

Collection Date: 05-Mar-13 9:12 AM Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
ALKALINITY (FIXED END POINT 4.5)						•	•
Alkalinity (mg/L CaCO3)	2200	mg/L (CaCO3)		0.1	1	SM2320B	03/06/2013 15:58	SWILLI3
INORGANIC IONS BY IC								
Chloride	6800	mg/L		100	1000	EPA 300.0	03/12/2013 08:59	JAHERMA
Fluoride	24	mg/L		5	50	EPA 300.0	03/12/2013 08:59	JAHERMA
Sulfate	15000	mg/L		200	2000	EPA 300.0	03/12/2013 08:59	JAHERMA
TOTAL METALS BY ICP								
Boron (B)	572	mg/L		0.5	10	EPA 200.7	03/08/2013 14:58	DJSULL1
Iron (Fe)	0.123	mg/L		0.01	1	EPA 200.7	03/08/2013 14:58	DJSULL1
Manganese (Mn)	7.38	mg/L		0.005	1	EPA 200.7	03/08/2013 14:58	DJSULL1
TOTAL RECOVERABLE METALS BY	/ ICP-MS							
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Barium (Ba)	117	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	03/11/2013 15:16	KRICHAR
TOTAL DISSOLVED SOLIDS								
TDS	38000	mg/L		200	1	SM2540C	03/07/2013 15:30	SWILLI3
TOTAL SUSPENDED SOLIDS								
TSS	30	mg/L		5	1	SM2540D	03/08/2013 14:00	TJA7067

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM Analytical Lab **Analytical Laboratory Use Only Duke Energy Analytical Laboratory** 19Page _1__ of _Page 5 of 5 Sample Class DISTRIBUTION **NPDES** Mail Code MGO3A2 (Building 7405) Originating ORIGINAL to LAB. Hagers Ferry Rd COPY to CLIENT Huntersville, N. C. 28078 Fax: (704) 875 (704) 875-5245 SAMPLE PROGRAM NPDES X 1)Project Name MIAMI-FORT NPDES (SPLIT SAMPLE COOLER) PO# 4)Fax No: Sue Wallace, Tara Thomas, Matthew Hoyt 15Preserv.:1=HCL 2=H2SO4 3=HNO3 4 4 4,2 3 4=lce 5=None MR# 7)Resp. Center To: 6)Process: 5)Business Unit: Ba, B, Fe, Mn, As, Bo Cd, Cr, Cu, Pb, 9)Activity ID: 10)Mail Code: 8)Project ID: Customer to complete all appropriate non-shaded areas. F, SO4 Cl, F, SO4 Alkalinity TKN, NH3 ¹⁴Collection Information LAB USE ONLY 18Grab 12Chem TDS TSS ¹³Sample Description or ID Desktop No. Time X 2 2 3-5-13 10:15 Outfall 002 2013004972 3-5-1309:12 2 2 2 X Outfall 608 2013004973 ²²Requested Turnaround 1) Relinquished By 11:05 Customer, IMPORTANT! e indicate desired turnaround 5)Relinquished By Date/Time 8)Accepted By: Date/Time 7)Relinquished By Date/Time 10) Seal/Lock Opened By Date/Time 9)Seal/Locked By * Add. Cost Will Apply Date/Time 12)Seal/Lock Opened By Date/Time 11)Seal/Locked By ICP-TOT - B, Fe, MN IMS-TRM - As, Ba, Cd, Cr, Cu, Pb, Zn TSS and TDS are 2 liter containers Fe HACH